



USGS Land Remote Sensing Program: Commercial Imagery Project

**High Spatial Resolution Commercial Imagery Workshop
USGS National Center**

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LRSP Commercial Imagery Project Vision

- **Enable effective USGS and civilian community access, application, and management of commercial remote sensing assets.**

Land Remote Sensing Program

- **Satellite Flight Operations**
 - **Data Acquisition, Archiving, and Distribution Services**
 - **National Civil Applications**
 - **Future Missions and Technology Investigations**
 - **Research and Development (airborne and space systems)**
 - **Commercial Data Acquisition and Management (Commercial Imagery Project)**
 - **Interdisciplinary Science Support**
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Purpose of Briefing

- **Overview of USGS Commercial Imagery Project**
 - **Access:** Imagery contracts and support services
 - **Validation:** Joint Agency Commercial Imagery Evaluation
 - **Utility:** Earth science applications
 - **Data management:** Search, order, deliver, preserve
 - **Civil agency imagery strategy:** Co-Chair FGDC Civil Imagery and Remote Sensing Task Force
 - **Policy:** Use of licensed data

Imagery Contract

- **To Augment other USGS and agency contract vehicles**
- **Specifications under development**
- **Primarily commercial sources**
- **Broad range of imagery types**
- **Service USGS and other agency needs**
- **Facilitate cost-effective partnerships**
- **Seek negotiated flexibility in licensing terms**

Current and Proposed Commercial Data Management Activities

- **Support historical and planned imagery/brokerage contracts**
- **Customer services**
- **Metadata for search and discovery**
- **Earth Explorer for access**
- **License uplifts**
- **Data staging and delivery**
- **Archive**
- **Management of restricted holdings**

FY 2002 JACIE Efforts

- **Space Imaging DEMS and imagery**
- **DigitalGlobe QuickBird II imagery**
- **Test site upgrades at Mid-Continent Mapping Center and EROS Data Center**
- **JACIE Interagency Agreement**

Earth Science Applications

- **Over \$750,000 in CI awarded to USGS by NASA for science applications**
- **USGS/NASA related applications:**
 - **Volcanic deformation**
 - **Land use/land cover**
 - **Landsat validation**
 - **Forest resources assessment**
 - **Others**

Co-Chair FGDC Civilian Imagery and Remote Sensing Task Force

- **Co-Chair OMB/FGDC Civilian Imagery and Remote Sensing (CIRS) Task Force**
 - Report to the Executive Branch on the value of RS to National interests
 - Develop civil agency imagery strategy complementary to NIMA Commercial Imagery Strategy
 - Other – facilitate industry/government communications
 - **Additional liaison with:**
 - NIMA Commercial Imagery Program
 - NASA/Stennis commercial imagery activities
 - Civil Applications Committee and the civil community
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Licensed Data Usage

- **USGS is both a data producer and data user**
- **USGS traditionally produces public domain products**
- **Licensed data may be best available: currentness, accuracy, attribute content**
- **USGS/MAPPS discussing opportunities/constraints to use licensed data in the *National Map***
- **License agreements must anticipate and accommodate use and distribution needs**
- **Integrity of copyrighted and licensed commercial data must be assured**

Anticipated Future Trends...

- **Growth in USGS commercial imagery activities**
- **More sources and varieties: digital aerial, IFSAR, LIDAR, hyperspectral**
- **Lower costs, increased licensing flexibility**
- **Reinvigorated effort to consolidate civil community requirements and acquisitions**
- **Greater integration of civil and commercial data sources in public sector applications**
- **Increased focus on derived information as opposed to raw source imagery**